

Motion of a Gas Due to a Pressure of Short
Duration (Shock), by Ya. B. Zel'dovich, 11 pp.

RUSSIAN, qu per, Akust Zhur, Vol II, No 1, Jan/
Feb/Mar 1956, pp 28-38.

Amer Inst of Physics
Soviet Physics - Acoustics
Vol II, No 1.

Sci - Physics
Feb 57 CTS

44, 140

S-822/63

Contents, by Ya. B. Zel'dovich, M. A. Rizin, 3 pp.

RUSSIAN, bk, Impul's Reaktivnoy Sily Porokhovykh
Raket, m 1963, pp 189-190.

CIA/FED X-5216

Sci - Fuels
Sep 63

343,783

Theory of Detonation, by Ya. B. Zeldovich, A. S.
Kompaneetz. UNCL

RUSSIAN, bk, 1957.

*CB

May 60
(from LLU Tr Bul Apr 60)

(SF-1064)

S-178/60

Theory of Detonation Spin, by Ya. B. Zel'dovich,
5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LII, No 2,
1946, pp 147-150.

JPRS 4077

Sci - Chem

Oct 60

128,022

(SF-1050)

178/60

Kinetics of Combustion of Carbon, by G. A.
Barskiy, Ya. B. Zel'dovich, 23 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXV, No 5,
1951, pp 523-537.

JPRS 4074

Sci - Chem

Oct 60

128,019

(SF-1044)

178/60

Remarks on A. S. Sokolik's Article "The
Mechanism of Predetonation Acceleration of
Flames", by Ya. B. Zel'dovich, 6 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXI,
No 10, 1951, pp 1172-1175.

JPRS 4043

Sci - Phys

Sep 60

126,103

The Asymptotic Properties of Self-Modeling
Solutions of the Nonstationary Gas Filtration
Equations, by Ya. B. Zel'dovich, G. I. Barenblatt,
4 pp.

RUSSIAN, Per, Dok Ak Nauk SSSR, Vol CXVIII, No 4,
1958, pp 671-.

Amer Inst of Phys
Sov Phys - Doklady
Vol III, No 1

Sci - Phys

91,503

Jul 59

The Effect of Weak Interaction on the
Electromagnetic Properties of Particles, by Ya. B.
Zel'dovich, A. M. Perelomov, 8 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIX,
No 4 (10), 1960, pp 1115-1125.

AIP
Sov Phys - JETP
Vol XII, No 4

155,698

Sci

Jun 61

Undiscovered Isotopes of Light Nuclei, by A. I. Baz',
V. I. Gol'danskiy, Ya. B. Zel'dovich, 14 pp.

RUSSIAN, per, Uspekhi Fiz Nauk, Vol LXXII, 1960,
pp 211-234.

AIP
Soviet Phys - Uspekhi
Vol III, No 5

Sci - Phys

Apr 61

147,179

The Burning of a Rapid Stream in a Pipe, by
Ya. B. Zel'dovich, 23 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XIV, No 3,
1944, pp 163-171.

Sci Trans Center
RT-1948

Scientific - Physics Jan 55 CTS/DKX

20,847

The Transformation $K_2^0 \rightarrow K_1^0$ by Electrons, by
Ya. B. Zel'dovich, 4 pp.

RUSSIAN, per, Zhur Eksp. i Teoret Fiz, Vol
XXVI(9), No 5, 1959, pp 1381-1386.

Amer Inst of Phys
Sov Phys-JETP

Sci

Dec 59

103,684

A Theory of the Limit of Slow Flame Propagation,
17 pp by Ya. B. Zel'dovich

RUSSIAN, per, J. Kynsl and Theoret. Flame 11.
159-169 (1941)

Avail Armed Services Tech
Info Agency as Ati 83148

Scientific - Physics

1542

The Relation Between Decay Asymmetry and Dipole
Moment of Fundamental Particles, by Ya. B.
Zel'dovich, 7 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol
~~XXXIII~~ XXXIII, No 6(12), 1957, pp 1488-1496.

Amer Inst of Phys
Sov Phys-JETP
Vol 6(33), No 6

Sci - Physics
Aug 58

69, 655

The Kinetics of Chemical Reactions in Flames III.
The Mechanism of CO Combustion, 19 pp. by Ya. B.
Zel'dovich and N N Semenov

PER RUSSIAN, per, J. Exptl and Theoret. Phys. 10,
1427-40, 1949 (1940)

Avail Armed Services Tech
Info Agency as ATI 83148

1541

Scientific - Physics

TT-62-28118

Zeldovich, Ya.
POLARISATION DES QUANTA γ LORS DE LA DISPERSION DE COMPTON DE 180° (On the Polarization of Gamma Quanta in Compton Scattering at 180°). 8p.
6 refs. CNRS-X 228.
Order from OTS, ETC or CNRS \$0.80 TT-62-28118

Trans. in French of Akademiya Nauk SSSR. Doklady, 1952, v.83, no.1, p.63-66.

DESCRIPTORS: *Quantum mechanics, Energy, Polarization, *Electrons, Theory, *Spin. Compton scattering, Gamma rays.

(Physics--Theoretical, TT, v. 11, no. 6)

- I. Zeldovich, Ya.
- II. CNRS-X 228
- III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

The Initial Stages of the Evolution of the Universe, by
Ya. B. Zel'dovich, 9 pp.

RUSSIAN, per, Atom Energiya, Vol XIV, No 1, 1963,
pp 92-99.

CB

Sci
Jan 64

249,272

Theory of Detonation, by Ya. B. Zel'dovich,
A. S. Kompaneys, 338 pp.

RUSSIAN, bk, Teoriya Detonatsii, Moscow, 1955.

Navy Tr 1623/ONI A 858

Sci - Phys

Feb 58

58, 703
Academic Press
111 5th Ave
NY

Theory of Flame propagation, by Ya. B. Zel'dovich, 39 pp.

RUSSIAN, per, Zhur Fiz Khim, t. 22, 1948, pp 27-49.
(See United States: National Advisory Committee for
Aeronautics.)

~~Technical memorandum 1282.~~

NACA TM 1282
ATIC F-75-
6767

51/2493.

Sci. Museum Lib No 51/2493 - London

AT-720 - AEC 579
SHATE A13400

The Investigation of the Skin Structure of the Bunsen
Flame, 14 pp. by K. S. Zarembo and Ya. B. Zel'dovich

RUSSIAN, per, J. Phys. Chem., (USSR), 22, No 4,
427-38 (1948).

Avail Armed Services Tech Info
Agency as ATI 83148

Scientific - Physics

1532

Zeldovich, Y. B.

THEORY OF THE PROPAGATION LIMIT OF QUIET
FLAMES: EXCERPTS (Teoria Predela Rasprostran-
eniya Tikhogo Plameni), tr. by Marcel I. Weinreich.
25 Aug 60, 16p. 17 refs.
Order from LC or SLA mi\$2.40, ph\$3.30 SCL-T-331

Trans. of Zhurnal Eksperimental'noy i Teoretiches-
koy Fiziki (USSR) 1941, v. 11, no. 1, p. 159-165 and
169.

Contents:

- Chap. 1. Elementary theory
- Chap. 2. Comparison with other theories
- Chap. 3. Applying the theory of similarity
- Chap. 5. Conclusion

(Chemistry--Physical, TT, v. 5, no. 6)

61-13928

- 1. Flame propagation--
Theory
- 2. Combustion--Theory
- I. Zeldovich, Y. B.
- II. SCL-T-331
- III. Sandia Corp.,
Albuquerque, N. Mex.

Office of Technical Services

Zel'dovich, Ya.

ON THE PROPAGATION OF SHOCK WAVES IN
GASES WITH REVERSIBLE CHEMICAL REACTIONS
(O Rasprostraneni Udarnykh Voln v Gaze s Obratimymi Khimicheskimi Reaktsiyami). 19 Dec 60, 7p.
7 refs. JPRS: 7319.

Order from OTS \$0.50

61-11818

Trans. of Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki (USSR) 1946, v. 16, no. 4, p. 365-368.

A reversible chemical reaction, or a delayed excitation of part of the heat capacity of the gas, caused a sharply pronounced expansion of the shock wave front. The structure of the front depends on the wave amplitude (on the ratio of the wave velocity to the maximum velocity of the sound). This effect is suggested as a means for studying the transfer of energy onto the internal degrees of freedom of molecules.

(Chemistry--Physical, TT, v. 5, no. 6)

61-11818

1. Shock waves--Propagation
2. Gases--Chemical reactions
1. Zel'dovich, Ya.
- II. JPRS-7319
- III. Joint Publications Research Service, New York

Office of Technical Services

On the Stability of Flame Propagation, by G. I.
Earenblatt, Ya. B. Zel'dovich, 6 pp.

RUSSIAN, per, Prikl Mate Mekh, Vol XXI, No 6, 1957,
pp 856-859.

Morris D. Friedman
\$3.00

Sci - Chemistry
Mar 59

84,383

Converging Cylindrical Detonation Wave, by Ya.
B. Zel'dovich, 5 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Ak Nauk
SSSR, Vol XXXVI, (9), No 3, 1959, pp 782-792.

AIP
Sov Phys - JETP

Sci - Phys
Oct 59

100,013

Diffusion Phenomena at the Limits of Propagation of
Flame: Experimental Investigation of the Inhibition
of Explosive Mixtures of Carbon Monoxide, by N. P.
Drozdov, Ya. B. Zel'dovich.

RUSSIAN, per, Zhur Fiz Khim, Vol XVII(3), Moscow,
1943, pp 138-144.

Cornel Aeronautical Laboratories
Inc., USA

Tr No OT/388

S.L.A. Tr

Scientific - Chemistry, diffusion, flame, explosive,
mixtures, carbon monoxide

Index Aeronauticus

British

A-1873

Cooling of Air by Radiation. II. Strong Cooling
Waves, by Yu. B. Zeldovich, A. S. Kompanayets,
Yu. P. Raizer, 6 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol. XXIX
No 6, 1958, pp 1447-1454.

Amer Inst of Phys
Sov Phys - JETP
Vol VII (34), No 6

Sci - Phys
Jan 59

78, 726

ZEL'DOVICH, Ya B

Experimental Proof of the New Theory of Flame Propagation
and Determination of the Heat of Activation and of the
Reaction Speed in a Flame - Russ book 1945 OOW 3679/49

The Theory of Power Combustion.

The Theory of Detonation Distribution, the State of Deton
ation Products for Various Conditions.

Similarities in Detonation Phenomena (Dimensional Analysis)

The Velocity and Extent of Flame Propagation in Hydrogen-
Bromine Mixtures.

(over)

A13396

Radiation Cooling of Air. I. General Description of
the Phenomenon and the Weak Cooling, by Ya. B.
Zel'dovich, A. S. Kompaneysn, Yu. P. Raizer, 7 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIV,
No 5, 1958, pp 1278-1287.

Amer Inst of Phys
Sov Phys - JETP
Vol VII (34), No 5

Sci - Phys
Dec 58

77,535

On the Theory of the Propagation of Detonation in
Gaseous Systems, by Ia. B. Zeldovich, 50 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, No 10, 1940.

NACA TM 1261

NOT-574

A13399

Nov cts.

Calculation of the Velocity of Detonation in
Gases, by Ya. B. Zeldovich, S. B. Ratner.

UNCLASSIFIED

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XI,
No 1, 1941, pp 170-183.

ATIC F-TS-8312

Scientific - Physics
ATI 83148

13,498

TT-65-64146

Field 1A, 20D, 20M

Zeldovich, Ya. B.; Raizer, Yu. P.
PHYSICS OF SHOCK WAVES AND HIGH-TEMPERATURE
HYDRODYNAMIC PHENOMENA. 30 Sep 65, 1095p,
425refs. FTD-MT-64-514; AD-322 356.
Order from CFSTI, SLA, or ETC: HC\$14.95, MFS\$4.00
as AD-622 356

Edited machine trans. of mono. Fizika Udarnykh Voln
i Vysokotemperaturnykh Gidrodinamicheskikh Yavlenii,
Moscow, 1953 632p.
Available copy will not permit fully legible reproduction.

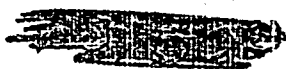
I. Foreign Technology Div.,
Wright-Patterson AFB,
Ohio

Pressure and Velocity Distribution in Explosives,
Especially During Spherical Propagation of the
Detonation Wave, by Ya. B. Zeldovich.
UNCLASSIFIED

^K
RUSSIAN, per, Zhur ^KEsper 1 Teoret Fiz, Vol XII,
No 9, 1942, pp 389-406.

ATIC F-TS-8314

Scientific - Physics



13,500

Formation of Hydrogen Masic Molecules, by Ya. B.
Zel'dovich, S. S. Gershtein, 4 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXIV,
No 3(9), 1958, pp 649-654.

Amer Inst of Phys
Sov Phys - JETP
Vol VIII(35), No 3

Sci - Phys

Apr 59

83,876

(NY-1486)

Large-Amplitude Shock Waves in Gases, by Ya. B.
Zel'dovich, 58 pp.

RUSSIAN, no per, Uspekhi Fiz Nauk, Vol LXIII, No 3,
Moscow, Nov 57, pp 613-641.

US JPRS/NY-L-86

USSR

Physical Sciences - Physics, Shock Waves

63,433

Meson Corrections in the Theory of Beta Decay, by
S. S. Gershtein, Ya. B. Zel'Dovich, 3 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz.
Vol XXIX, No 5, Nov 1955, pp 698-699.

Amer Inst of Physics
Soviet Physics, Vol II, No 3

Sci - Physics
Feb 57 CTS

43, 796

19
Theory of Shock Waves and Introduction to Gas
Dynamics, by Ya. B. Zel'dovich. 231 pp
RUSSIAN, par. AN SSSR, Institut Khimicheskoy
Fiziki, 1946. P100102868-V
FTD-HT-66-256

Ya. B. Zel'dovich

Sci/Phys
June 68

359,314

Nuclear Reactions in Super-Dense Cold Hydrogen, by
Ya. B. Zel'dovich, 3 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIII,
No 4 (10), 1957, PP. 991-993

Amer Inst of Phys
Sov Phys-JETP
Vol VI (33), No 4

Sci - Phys

Jan 58

65, 675

Sci/Physics

C

Kinetics of Chemical Reactions in Flames; by Ya. B.
Zel'dovich, H.N.Semenov, 15 pp. UNCLASSIFIED

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol X, 1940.

NACA TM 1084

A10678

Oct cts

On the Theory of Unstable States, by Z. B. Zel'dovich, 4 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIX, No 3 (9), 1960, pp 776-780.

- AIP
Soviet Phys-JETP
Vol XII, No 3

Sci
Jun 61

156,438

English Title Unknown, by J. Zelechowska,
1 p. FOR OFFICIAL USE ONLY
POLISH, per, Gospodarka Rybna, Vol XVI, No 6,
1964, pp 21-22.
*CFSTI - TT 66-57038

Sci-Misc
Feb 66

(ny-5909).

Achievements of Inland Waterways, by Marian Zelek,

POLISH, np, Tygodnik Morski, Vol III, No 46,
20 Nov 1960, p 3.

*JPRS

EEur - Poland

Econ - Transportation, Inland Waterways

16 Feb 61

Thermal Conductivity of Technical Materials at
Low Temperatures, by N. V. Zavaritskiy, A. G.
Zel'dovich, 5 pp.

RUSSIAN, MO Per, Zhur Tekh Fiz, VI XXVI, No 9,
1956, pp 2032-2036.

Amer Inst of Phys
Soviet Phys-Tech Phys
Vol I, No 9

Sci - Physics
Oct 57

54,387

The Structure and Function of Muscle Receptors,
by P. Baik and P. Zelena, 66 pp.
CZECH, per, Czechoslovakian Physiology, Vol. XII,
1963, pp 1-25.
K H 13134 b

P. Zelena

Sci-B&H
Jul 66

307,253

Zelener, V. THE FIELD RECTIFIER DESIGNED BY F. V. DROBYSHEV. Trans. on Soviet Geodesy 1925-40. 24 Mar 61 [8]p. 2 refs. JPRS: R-111-N/6. Order from LC or SLA ml\$1.80, ph\$1.80 61-19296 Trans. of Geodezist (USSR) 1933 [v. 9] no. 1/2, p. 71-76. (Unannounced)	61-19296 I. Rectifiers (Photography)-- Design I. Zelener, V. II. Title: Soviet ... III. JPRS-R-111-N/6 IV. Joint Publications Research Service, New York Office of Technical Services
---	---

Separation of α -Chlorocarboxylic Acids by Paper Chromatography, and Their Quantitative Determination.
By A. A. Zelenetskaya, N. W. Miritina pp. 5

RUSSIAN, per, Zhur Anal Khim, Vol XVII, No 8, 1962,
pp. 1000-1014

CR

Sci

344,541

Sep 63

Liquid-Vapour Equilibrium for Phenyl Ether Salicylate
and Mentholmenthone Mixtures at Reduced Pressures, by
N. I. Gel'perin, N. N. Zelenetakiy, 3ppp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXXIV, No 10,
1960, pp 2230-2234.

Cleaver-Hume Press

Sci

Aug 61

164,171

Investigation of the Process of Fractional Distillation in a Filled Column Under Reduced Pressure, by H. I. Gel'perin, N. N. Zelenetskiy, 5 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol XXXII, No 9, 1959, pp 2001-2004.

CB

Sci

Aug 60

124,255

Zelenev, Yu. V.
THE RELATIONSHIP BETWEEN THE STRUCTURE
AND DYNAMIC PROPERTIES OF RUBBER-LIKE
NETWORK POLYMERS OVER A WIDE RANGE OF
TEMPERATURES. Sep 63, 10p 13refs
Order from PF \$140.00/year in Polymer Science USSR,
v. 4, no. 3, p. 457-466

Trans. of Vysokomolekulyarnye Soedineniya (USSR)
1962, v. 4, no. 10, p. 1486-1494.

DESCRIPTORS: Polymers, *Rubber, *Synthetic
rubber, Mechanical properties, Elasticity, Molecular
structure, Thermodynamics.

(Materials--Rubber, TT, v. 11, no. 1)

TT-63-22211-3 (p. 457-466)

I. Zelenev, Yu. V.

1106688

1106688

Office of Technical Services

Relation Between the Coefficient of Cold-Resistance and the Maximum Mechanical Loss of Rubbery Polymers Under Repeated Deformation in the Glass-Transition Range, by G. M. Bartenev, Yu. V. Zelenov, 4 pp.

RUSSIAN, per, Kauchuk i Rezina, Vol XIX, No 8, 1960, pp 18-21.

RAPRA

155,879

Sci

Jun 61

Use of Azeotropic Rectification For Separation of
Close-Boiling Isomers (The System m-Xylene-p-
Xylene), by Yu. N. Garber, S. I. Zeleneyevskaya,
G. G. Rabukhins, 6 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXIII, No 3,
1960, pp 694-699.

BY CEZ
144,363

Sci

Apr 61

(NY-1873)

A CASE OF FATAL POISONING WITH PHOSGENE IN A
LABORATORY, BY A. S. BURDA, V. M. ZELENGUROV,
N. A. OBORIN, 4 PP.

RUSSIAN, PER, GIGIYENA TRUDA I PROFESSIONAL 'NYYE
ZABOLEVANIYA, NO 7, 1962, PP 48-50.*

JPRS 14968

SCI - MED

AUG 62

209,195

Oxidation -- Reduction Systems For Initiation of
Radical Processes. X. The Mechanism of Action of
Oxidation -- Reduction Systems Involving SO_2 , by
E. I. Tinyakova, B. A. Dolgoplosk, T. P. Zolentia.
5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 7,
1959, pp 2377-2381.

CB

Sci

Sep 60

126,628

About the Physiology of the Antrum of the
Stomach, by G. P. Zelenii, V. V. Savitch;
13pp

RUSSIAN, per, Obshchestvo Russkikh Vrachov
vs. -Peterburgsk. Druzh. Vol 78, 1911,

pp 221-233

SIA TT-60-10667

G. P. Zelenii

Sci - Biol

June 67

327,582

Histological Changes in the Hypophysis of the Carp
During Sexual Development, ~~XXXXXXXXXXXX~~ by
A. I. Irikhimovich, A. M. Zelenin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXIV, No 3,
1957, pp 655-657.

Amer Inst of Biol Sci

Sci - Biology

Aug 58

702

Rock Breaking With Jetstream Under Pressure
up to 2,000 ATM, by A. N. Zelenin, G. M.
Vesselov, Y. G. Konyashin, 24 pp.

RUSSIAN, monograph, Voprosy Gornogo
Dela, 1958, pp 112-122.

SLA 60-17123

Sci -
Vol IV, No 7
Apr 62

H

193,863

Rock Breaking With Jetstream Under Pressure Up to
2,000 Atm, by A. N. Zelenin.

RUSSIAN, per, Problems of Mining, 1958, pp 112-122.

Dept of Interior
TN7, E57, No 2 306

Sci - Eng
Oct 66

128,407

Transients in a Servosystem Under Small Frequency
Deviations, by A. P. Zelenin, 5 pp.

RUSSIAN, per, Radiotekhnika, No 2, 1963.

IEEE

Sci
Jan 64

245, 779

(NY-6499)

Suppression of Undesirable Signal Modu-
lation and Improved Selectivity, by
A. P. Zelenin, 6 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved -
Seriya Radiotekhnika, Vol IV, No 4, 196.

JPRS 13233

Sci

190,436

Apr 62

Luminiscent Microscope Examination of Normal and Tumoral
Cells Fluorochromized With Acridine Orange at Different
pH Values, by N. Ye. Vorotnitskaya, A. V. Zelenin, et al,
5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLII, No 3,
21 Sep 1963, pp 724-726.

JPRS 23298

Sci-Med
Feb 64

250,297

Changes in the Thyroid Gland Following Removal
of the Stellate Sympathetic Ganglia, by A. V.
Zelenin, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXII, March
No 2, 1960, pp 453-455.

AIBS

Sci

141, 882

Mar 61

Changes in the Thyroid Induced by Removal of the
Sensory Ganglion of the Vagus, by A. V. Zelenin,
pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXIII, No 4,
1957, pp 917-919.

Amer Inst of Biol Sci

Sci - Biology

Aug 58

70,271

Changes in the Thyroid Gland After Removal of the
Spinal Sensory Ganglia in the Spinal Column, by A. V.
Zelenin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXIII, No 6,
1957, pp 1357-.

Amer Inst of Biol Sci

Sci - Biology

Aug 58

70,263

Descriptive Geometry With Problems and Exercises, by
E. V. Zelenin.

RUSSIAN, bk, 400.pp.

*Pergamon Inst

Jun 59

Synthesis of Esters of Thioazocarboxylic Acids, by
V. A. Ginsburg, G. E. Zelenin, S. S. Dubov, 4 pp.
et al.

RUSSIAN, per, Zhur Obshch, Khim, Vol XXX, No 8, 1960,
pp 2689-2692.

CB

168, 783

Sci

Sep 61

THE SIMPLEST UNSATURATED XDIALKYLHYDRAZONES, BY
B. V. IOFFE, K. N. ZELENIN, 4 PP.

RUSSIAN, PER, DOK AK NAUK SSSR, VOL CXLI,
NO 6, 1961, PP 1369--1372.

CB

SCI

AUG 62

205,831

J-4760 (BM)

(DC-3234).

They Broke With Religion, by M. Zelenin, 4 pp.

RUSSIAN, per, Partinaya Zhizn' Kazakh, No 11,
1959, pp 60-62.

JPRS-1140-D

USSR

Soc - Religion

Feb 60

106,898

Investigations in the Field of Polymethylene
Rings. XXVII. Reactions and Reaction Products
of 1,4-Cyclohexanedione and Acetylacetone
with Hydrozine and Dimethylhydrazine, by N.
A. Dampin, M. N. Zelenina and N. S. ~~Glebovskaya~~ Glebovskaya, 3 pp.

RUSSIAN, per, Zhur Obsheh Khim, Vol XXVII, No
6, 1957, pp 1516, 1517.

Consultants Bureau

Sci - Chem
Sep 58

72,917

Investigations in the Field of Polymethylene Rings.
XXVIII. Investigation of the Reaction Products of
Acetylaceton With Hydrazine, by N. A. ~~SENET~~
Domnin, M. N. Zelenina, N. S. Glebovskaya, 5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVII, No 8,
1957, pp 2088-2092.

Consultants Bureau

Sci - Chem
Oct 58

74,328

p17

**Effect of Various Phosphoric Fertilizers Made From
Kara-Tau Phosphorite Upon Cotton Crops, by N. N. Zelenin,
8 pp.**

**RUSSIAN, per, Khim v Sel'skoye Khoz, No 1, 1964, pp 7-9.
JPBS 28023**

**Sci - Agri
Feb 65**

273,258

On the Mechanisms of Stomach Secretions, by
G. P. Zeleniy, V. V. Savitch, 10 pp.

RUSSIAN, per, Trudy Obshch Russk Vrach S
Petersburg, Vol LXXIX, 1912, pp 137-147.

CFSI TT-65-60893

NIH 2-52-60

Sci - Med

Apr 60

115,018

About the Physiology of the Antrum of the
Stomach, by G. P. Zeleni^Y, V. V. Savitch, 12 pp.

RUSSIAN, per, Trudy Obsheh Rusak Vrach S.
Petersburg, Vol LXXVIII, 1911, pp 221-233.

NIH 12-51

Sci - Medicine
Jan 60

105,326

Starting Vehicle Engines at Low Ambient Temper-
atures, by J. Zelenka, V. Dvorak, 12 pp.

CZECH, per, Automobil, No 2, 1962, pp 34-39.

ACSI I-3060
ID 2211693

Sci - Engr, ~~XXXXXXXX~~
Jan 63

220,051

(DC-5965)

Conference on Piezoelectricity, by Jiri Zelenka,
9 pp. GOVERNMENT USE ONLY

CZECH, per, Slaboprouty Obzor, Vol XXII, No 9,
1961, p 573.

JPRS 13199

Eur - Czechoslovakia
Econ
Apr 62

190,782

Piezoelectric Resonators (Vibrators) for
Lowest Frequency, by Jiri Zelenka, 11 pp.

CZECH, per, Slaboproudý Obzor, 1961, Vol XXII,
No 2, pp 66-70. 9664286

FTD-TT-61-286

Sci - Electron

19 Mar 62

188, 281

Polythionic Acids. V. New Data on Selenopolythionates,
Preparation of Potassium Diselenotetrathionate, by
I. V. Yanitsky and V. I. Zelenkaite, 8 pp.

RUSSIAN, mo per, Zhur Obsch Khim, Vol XXV, No 5,
1955, pp 841-848.

Consultants Bureau

Scientific - Chemistry

41,309

Electronic Computer Machines, by G. Zelenkevich, V.
Rasroyev, 17 pp.

RUSSIAN, per, Radio, No 5, 1959, pp 51-55.

FDD/X-4017

Sci
Jan 60

(FDD 29217)

Experiments in Automatic Translation on the BESM
Electronic Computer (USSR), by G. P. Zelenkevich,
L. N. Korolev, S. N. Razumovskiy, 14 pp.

RUSSIAN, no per, Priroda, Moscow, Aug 1956,
pp 81-85.

CIA/FDD U-9024

USSR

41, 014
Sci - Electronics, ~~RESEARCH~~ Computer Applications
Oct 56

Features of the Distribution of the 1959 Influenza
Epidemic in the Far East, by G. P. Somov, A. A.
Zelenkin, V.R. Vinogradov, 5 pp.

RUSSIAN, per, Zhur Mikrobiol, Epidemiol i Immunoloy,
Vol XXXI, No 10, 1960, pp 116-119.

CB

Sci

171, 718

Oct 61

(SF-1830)

MACHINE LEARNS TO LEARN, BY G. ZELENKO, 5 PP.

RUSSIAN, PER, LENINSKOYE ZNAMYA, 6 JUL 1962.

JPRS 14962

SCI - MISC, CYBERNETICS

AUG 62

209,191

(DC-4700)

Present-Stage Training of Worker Cadres, by
G. Zelenko, 31 pp.

RUSSIAN, per, Sotsialisticheskiy Trud, No 1,
1962, pp 11-23.

JPAS 13322

USSR
Econ
Apr 62

190,875

MACHINE LEARNS TO LEARN, BY G. ZILBERG, 5 PP.

RUSSIAN, PER, LITVATOVNIYA GAZETA, 7 JUL 1962.

JPRS 14962

SCI - MATH - DATA PROCESSING

APR 63

285,720

TRAINING WORKERS BY G. ZELENO, 19 PP.

RUSSIAN, PER, PROFESSIONAL, NO-TEKHNIЧЕСКИЕ
ОБРАЗОВАНИЕ, NO 7, JULY 1963, PP L-6.

JPRS 81535

USSR
ECON
NOV 63

240,610

(DC-1840)

RAISE THE TRAINING OF AGRICULTURAL MECHANIZERS
TO THE LEVEL OF THE NEW TASKS, BY G. ZELENKO,
37 PP.

RUSSIAN, PER, PROFESSIONAL'NE-TEKHNIЧЕСКОYE
OBRZOBANIYA, NO 5, 1962, PP 3-8.

JPRS 15000

USSR
ECON

203,992

Deficiency Index and Spectrum of a Selfadjoint
System of First-Order Differential Equations,
by L. B. Zelenko.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol 181,
No 2, 1968, pp 278-281.

Am Math Society
Vol 9, No 4, 1968

L. B. ZELENGO

Jan 69

371,225

Some Design Calculations for a Double-Focusing
Alpha-Spectrometer, by A. G. Zelenkov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXIII,
No 12, 1959, pp 1396-1400.

Columbia Tech

Sci
Feb 61

138, 115

Large Double-Focusing Alpha-Spectrometer, by
S. A. Baranov, A. G. Zelenkov, G. Y a. Shchepkin,
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXIII,
No 12, 1959, pp 1389-1395.

Columbia Tech

Sci
Feb 61

138, 114

A Grid Type Ionization Chamber, by S. A.
Baranov, A. G. Zelenkov, Yu. F. Rodionov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol
XXI, No 7, 1957, pp 913-917.

Columbia Tech

Sci - Physics

Oct 58

75,368